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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/601,907	06/24/2003	Ju-Yup Kim	030681-528	7572	
21839	21839 7590 02/23/2006		EXAMINER		
	BUCHANAN INGERSOLL PC (INCLUDING BURNS, DOANE, SWECKER & MATHIS)			MERCADO, JULIAN A	
POST OFFICE BOX 1404		ART UNIT	PAPER NUMBER		
ALEXANDRI	ALEXANDRIA, VA 22313-1404		1745		

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/601,907	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Julian Mercado	1745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on		,				
•—	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.	4) Claim(s) <u>1-18</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-18</u> is/are rejected.						
7) Claim(s) is/are objected to.	,					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· —					
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Information Disclosure Statement

The Information Disclosure Statement(s) filed on June 24, 2003, March 18, 2004, July 2, 2004, August 31, 2005 and September 21, 2005 have been considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 13, 14, 16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Kita (JP 1-265-454).

Kita teaches a lithium battery having dimethyl oxalate. See p. 308, col. 2. The organic solvent is propylene carbonate. See Abstract.

Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Chu et al.

Chu et al. teaches a lithium-sulfur battery having an oxalate compound, e.g. dioxolane in combination with polyglycols such as polyglyme and additionally also including carbonates. See col. 14 line 33 et seq. and col. 4 line 25 et seq. The polyglymes are specifically disclosed as the main solvent present at about 50 to 100% by weight. See col. 14 line 42 et seq. Thus, the claimed oxalate in the range of 0.001 to 10 parts by weight with respect to the main solvent is

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considered taught by Chu et al. to the extent that this range overlaps therewith. The lithium salt has a concentration of 0.5 M. See col. 23 line 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

SATRICK JOSEPH RYAN

COMERVISORY PATENT EXAMINER

